

## **APPENDIX H**

### **CONFIRMATION SAMPLING 2005, DEAD CREEK SEGMENTS B, D AND F INFORMATION**

**Creek Segment B Summary of Soil Confirmation Sample Results**  
 Sauget Area 1 Dead Creek Sediment Removal Action  
 Sauget, Illinois

043-9670

Sample ID		CSBT01-1	MDL	CSBT01-2	MDL	CSBT01-3	MDL	CSBT01-4	MDL	CSBT2-1	MDL	CSBT2-2	MDL
Date Sampled		12/6/2005		12/6/2005		12/7/2005		12/7/2005		12/9/2005		12/9/2005	
Sample Location Description		Segment B, ~T0+15		Segment B, ~T0+40		Segment B, ~T0+65		Segment B, ~T0+90		Segment B, ~T2+10		Segment B, ~T2+35	
<b>Semi-Volatile Organic Compounds (USEPA Method 8270C)</b>													
<b>Analyte</b>	<b>RBC (mg/kg)</b>												
Bis(2-ethylhexyl) phthalate	0.478	NA		NA		NA		NA		NA		NA	
<b>Organochlorine Polychlorinated Biphenyls (Method 8082)</b>													
<b>Analyte</b>	<b>RBC (mg/kg)</b>												
PCB-1016													
PCB-1221													
PCB-1232													
PCB-1242													
PCB-1248													
PCB-1254													
PCB-1260													
PCB-1268													
Total PCBs	0.58	NA		NA		NA		NA		NA		NA	
<b>Metals (USEPA Method 7470A)</b>													
<b>Analyte</b>	<b>RBC (mg/kg)</b>									<b>(mg/kg)</b>		<b>(mg/kg)</b>	
Mercury	0.18	NA		NA		NA		NA		0.054	0.010	0.047 <b>B</b>	0.010
<b>Dioxins/Furans (USEPA Method 8280A)</b>													
<b>Analyte</b>	<b>RBC (mg/kg)</b>	<b>(ng/g)</b>		<b>(ng/g)</b>		<b>(ng/g)</b>		<b>(ng/g)</b>					
Total Dioxin TEQ	0.00051	0.006	TEQ	0	TEQ	0.1038	TEQ	0.0494	TEQ	NA		NA	

Results in ***bold italics*** denote detections.

RBC - Risk based concentration for Dead Creek

MDL - Method detection limit

NA - Not analyzed

Flags and Qualifiers

U - Analyte was not detected at or above the Method Detection Limit (MDL).

**U and B** - Result is an estimated value below the Reporting Limit (RL), but greater than or equal to the Method Detection Limit (MDL); The concentration is an approximate value.

**P** - The lower of the two values is reported when the % difference between the results of two GC columns is greater than 40%.

N - Spiked Analyte recovery is outside stated control limits.

TEQ - Detection limits for total dioxin TEQ vary widely for each dioxin compound and are typically less than 0.5ng/g. The laboratory reported dioxin TEQ as 0 (zero) when dioxins were not detected.

Checked by: AMF

Reviewed by: MNH

**Creek Segment B Summary of Soil Confirmation Sample Results**  
 Sauget Area 1 Dead Creek Sediment Removal Action  
 Sauget, Illinois

043-9670

Sample ID		CSBT2-3		MDL	CSBT3-1		MDL	CSBT3-2		MDL	CSBT3-3		MDL	CSBT3-4		MDL	CSBT16-1		MDL
Date Sampled		12/12/2005			12/12/2005			12/12/2005			12/14/2005			12/14/2005			12/21/2005		
Sample Location Description				Segment B, ~T1+90			Segment B, ~T2+60			Segment B, ~T2+85			Segment B, ~T3+10			Segment B, ~T3+30			Segment B, ~T15+60
Semi-Volatile Organic Compounds (USEPA Method 8270C)																			
Analyte	RBC (mg/kg)				(ug/kg)			(ug/kg)			(ug/kg)			(ug/kg)					
Bis(2-ethylhexyl) phthalate	0.478	NA			U	48		U	55		U	56		U	13	NA			
Organochlorine Polychlorinated Biphenyls (Method 8082)																			
Analyte	RBC (mg/kg)				(ug/kg)			(ug/kg)			(ug/kg)			(ug/kg)					
PCB-1016					U	9.4		U	11		U	11		U	9.5				
PCB-1221					U	9.5		U	11		U	11		U	9.6				
PCB-1232					U	8.7		U	9.8		U	9.9		U	8.8				
PCB-1242					U	11		U	12		U	12		U	11				
PCB-1248					200	11		55 P	13		U	13		U	11				
PCB-1254					U	7.3		U	8.2		U	8.3		U	7.4				
PCB-1260					U	9.0		U	10		U	10		U	9.1				
PCB-1268					U	15		U	17		U	18		U	16				
Total PCBs	0.58	NA			200			55			U			U		NA			
Metals (USEPA Method 7470A)																			
Analyte	RBC (mg/kg)				(mg/kg)														
Mercury	0.18		0.020 B	0.010	NA			NA			NA			NA			NA		
Dioxins/Furans (USEPA Method 8280A)																			
Analyte	RBC (mg/kg)				(ng/g)			(ng/g)			(ng/g)			(ng/g)			(ng/g)		
Total Dioxin TEQ	0.00051	NA			0.0047	TEQ		0	TEQ		0	TEQ		0	TEQ		0	TEQ	

Results in ***bold italics*** denote detections.

RBC - Risk based concentration for Dead Creek

MDL - Method detection limit

NA - Not analyzed

Flags and Qualifiers

U - Analyte was not detected at or above the Method Detection Limit (MDL).

***U and B*** - Result is an estimated value below the Reporting Limit (RL), but greater than or equal to the Method Detection Limit (MDL); The concentration is an approximate value.

***P*** - The lower of the two values is reported when the % difference between the results of two GC columns is greater than 40%.

N - Spiked Analyte recovery is outside stated control limits.

TEQ - Detection limits for total dioxin TEQ vary widely for each dioxin compound and are typically less than 0.5ng/g. The laboratory reported dioxin TEQ as 0 (zero) when dioxins were not detected.

Checked by: AMF

Reviewed by: MNH

**Creek Segment B Summary of Soil Confirmation Sample Results**  
 Sauget Area 1 Dead Creek Sediment Removal Action  
 Sauget, Illinois

043-9670

Sample ID		CSBT16-2		MDL	CSBT16-3		MDL	CSBT16-4		MDL	CSBT17-1		MDL	CSBT17-2		MDL
Date Sampled		12/21/2005			12/21/2005			12/21/2005			12/21/2005			12/21/2005		
Sample Location Description		Segment B, ~T15+85			Segment B, ~T16+10			Segment B, ~T16+35			Segment B, ~T16+90			Segment B, ~T17+15		
Semi-Volatile Organic Compounds (USEPA Method 8270C)																
Analyte	RBC (mg/kg)															
Bis(2-ethylhexyl) phthalate	0.478	NA			NA			NA			NA			NA		
Organochlorine Polychlorinated Biphenyls (Method 8082)																
Analyte	RBC (mg/kg)															
PCB-1016																
PCB-1221																
PCB-1232																
PCB-1242																
PCB-1248																
PCB-1254																
PCB-1260																
PCB-1268																
Total PCBs	0.58	NA			NA			NA			NA			NA		
Metals (USEPA Method 7470A)																
Analyte	RBC (mg/kg)															
Mercury	0.18	NA			NA			NA			NA			NA		
Dioxins/Furans (USEPA Method 8280A)																
Analyte	RBC (mg/kg)															
Total Dioxin TEQ	0.00051		0	TEQ		0	TEQ		0	TEQ		0	TEQ		0	TEQ

Results in ***bold italics*** denote detections.

RBC - Risk based concentration for Dead Creek

MDL - Method detection limit

NA - Not analyzed

Flags and Qualifiers

U - Analyte was not detected at or above the Method Detection Limit (MDL).

***U and B*** - Result is an estimated value below the Reporting Limit (RL), but greater than or equal to the Method Detection Limit (MDL); The concentration is an approximate value.

***P*** - The lower of the two values is reported when the % difference between the results of two GC columns is greater than 40%.

N - Spiked Analyte recovery is outside stated control limits.

TEQ - Detection limits for total dioxin TEQ vary widely for each dioxin compound and are typically less than 0.5ng/g. The laboratory reported dioxin TEQ as 0 (zero) when dioxins were not detected.

Checked by: AMF

Reviewed by: MNH

**Creek Segment D Summary of Soil Confirmation Sample Results**  
 Sauget Area 1 Dead Creek Sediment Removal Action  
 Sauget, Illinois

043-9670

Sample ID		CSD-T1-1	MDL	CSD-T1-2	MDL	CSD-T1-3	MDL	CSD-T1-4	MDL	CSD-T1-5	MDL	CSD-T1-6	MDL
Date Sampled		1/5/2006		1/5/2006		1/5/2006		1/5/2006		1/5/2006		1/5/2006	
Sample Location Description		Segment D, ~T1-50		Segment D, ~T1-25		Segment D, ~T1+00		Segment D, ~T1+25		Segment D, ~T1+50		Segment D, ~T1+75	
<b>Organochlorine Polychlorinated Biphenyls (Method 8082)</b>													
Analyte	RBC (mg/kg)												
PCB-1016													
PCB-1221													
PCB-1232													
PCB-1242													
PCB-1248													
PCB-1254													
PCB-1260													
PCB-1268													
Total PCBs	0.58	NA		NA		NA		NA		NA		NA	
<b>Metals (USEPA Method 6010B)</b>													
Analyte	RBC (mg/kg)												
Zinc	4739		<b>708 J</b> 0.34		<b>465 J</b> 0.34		<b>1920 J</b> 0.32		<b>4330 J</b> 0.32		<b>1710 J</b> 0.30		<b>63.0 J</b> 0.30
<b>Dioxins/Furans (USEPA Method 8280A)</b>													
Analyte	RBC (mg/kg)												
Dioxin TEQ	0.00051	NA		NA		NA		NA		NA		NA	

Results in ***bold italics*** denote detections.

RBC - Risk based concentration for Dead Creek

MDL - Method detection limit

NA - Not analyzed

Flags and Qualifiers

U - Analyte was not detected at or above the Method Detection Limit (MDL).

**U and B** - Result is an estimated value below the Reporting Limit (RL), but greater than or equal to the Method Detection Limit (MDL); The concentration is an approximate value.

**P** - The lower of the two values is reported when the % difference between the results of two GC columns is greater than 40%.

N - Spiked Analyte recovery is outside stated control limits.

TEQ - Detection limits for total dioxin TEQ vary widely for each dioxin compound and are typically less than 0.5ng/g. The laboratory reported dioxin TEQ as 0 (zero) when dioxins were not detected.

Checked by: AMF

Reviewed by: MNH

**Creek Segment D Summary of Soil Confirmation Sample Results**  
 Sauget Area 1 Dead Creek Sediment Removal Action  
 Sauget, Illinois

043-9670

Sample ID		CSD-T1-7	MDL	CSD-T1-8	MDL	CSD-T1-9	MDL	CSD-T1-10	MDL	CSD-T1-11	MDL	CSDT1-RAMP 1A	MDL
Date Sampled		1/5/2006		1/5/2006		1/5/2006		1/5/2006		1/5/2006		3/13/2006	
Sample Location Description		Segment D, ~T1+100		Segment D, ~T2+00		Segment D, ~T2+25		Segment D, ~T2+50		Segment D, ~T2+75		Segment D, N. of Kinder	
<b>Organochlorine Polychlorinated Biphenyls (Method 8082)</b>													
Analyte	RBC (mg/kg)												
PCB-1016													
PCB-1221													
PCB-1232													
PCB-1242													
PCB-1248													
PCB-1254													
PCB-1260													
PCB-1268													
Total PCBs	0.58	NA		NA		NA		NA		NA		NA	
<b>Metals (USEPA Method 6010B)</b>													
Analyte	RBC (mg/kg)												
Zinc	4739		<b>410 J</b> 0.31		<b>60.8 J</b> 0.31		<b>112 J</b> 0.31		<b>72.9 J</b> 0.32		<b>86.2 J</b> 0.35		<b>935 N</b> 0.2
<b>Dioxins/Furans (USEPA Method 8280A)</b>													
Analyte	RBC (mg/kg)												
Dioxin TEQ	0.00051	NA		NA		NA		NA		NA		NA	

Results in ***bold italics*** denote detections.

RBC - Risk based concentration for Dead Creek

MDL - Method detection limit

NA - Not analyzed

Flags and Qualifiers

U - Analyte was not detected at or above the Method Detection Limit (MDL).

**U and B** - Result is an estimated value below the Reporting Limit (RL), but greater than or equal to the Method Detection Limit (MDL); The concentration is an approximate value.

**P** - The lower of the two values is reported when the % difference between the results of two GC columns is greater than 40%.

N - Spiked Analyte recovery is outside stated control limits.

TEQ - Detection limits for total dioxin TEQ vary widely for each dioxin compound and are typically less than 0.5ng/g. The laboratory reported dioxin TEQ as 0 (zero) when dioxins were not detected.

Checked by: AMF

Reviewed by: MNH

**Creek Segment D Summary of Soil Confirmation Sample Results**  
 Sauget Area 1 Dead Creek Sediment Removal Action  
 Sauget, Illinois

043-9670

Sample ID		CSDT6-1	MDL	CSDT6-1B	MDL	CSDT6-2	MDL	CSDT6-3	MDL	CSDT6-4	MDL	CSDT6-5	MDL
Date Sampled		2/24/2006 & 1/13/06		1/13/2006		2/24/2006 & 1/13/06		2/24/2006 & 1/13/06		2/24/2006 & 1/13/06		2/24/2006 & 1/13/06	
Sample Location Description		Segment D, ~T5+25		CSDT6-1, 1-ft deeper		Segment D, ~T5+50		Segment D, ~T5+75		Segment D, ~T5+100		Segment D, ~T5+125	
Organochlorine Polychlorinated Biphenyls (Method 8082)													
Analyte	RBC (mg/kg)												
PCB-1016													
PCB-1221													
PCB-1232													
PCB-1242													
PCB-1248													
PCB-1254													
PCB-1260													
PCB-1268													
Total PCBs	0.58	NA		NA		NA		NA		NA		NA	
Metals (USEPA Method 6010B)													
Analyte	RBC (mg/kg)												
Zinc	4739	NA		NA		NA		NA		NA		NA	
Dioxins/Furans (USEPA Method 8280A)													
Analyte	RBC (mg/kg)	(ng/g)		(ng/g)		(ng/g)		(ng/g)		(ng/g)		(ng/g)	
Dioxin TEQ	0.00051	2.8170	TEQ	0	TEQ	0	TEQ	0	TEQ	0	TEQ	0.0017	TEQ

Results in **bold italics** denote detections.

RBC - Risk based concentration for Dead Creek

MDL - Method detection limit

NA - Not analyzed

Flags and Qualifiers

U - Analyte was not detected at or above the Method Detection Limit (MDL).

**U and B** - Result is an estimated value below the Reporting Limit (RL), but greater than or equal to the Method Detection Limit (MDL); The concentration is an approximate value.

**P** - The lower of the two values is reported when the % difference between the results of two GC columns is greater than 40%.

N - Spiked Analyte recovery is outside stated control limits.

TEQ - Detection limits for total dioxin TEQ vary widely for each dioxin compound and are typically less than 0.5ng/g. The laboratory reported dioxin TEQ as 0 (zero) when dioxins were not detected.

Checked by: AMF

Reviewed by: MNH

**Creek Segment D Summary of Soil Confirmation Sample Results**  
 Sauget Area 1 Dead Creek Sediment Removal Action  
 Sauget, Illinois

043-9670

Sample ID		CSDT6-6		MDL	CSDT6-RAMP 1A		MDL	1A	MDL
Date Sampled		2/24/2006 & 1/13/06			3/13/2006			3/13/2006	
Sample Location Description		Segment D, ~T6+15			Segment D, N. of Kinder St.			Segment D, ~T3+25	
<b>Organochlorine Polychlorinated Biphenyls (Method 8082)</b>									
<b>Analyte</b>	<b>RBC (mg/kg)</b>				<b>(ug/kg)</b>			<b>(ug/kg)</b>	
PCB-1016		U	8.6		U	7.5		U	7.5
PCB-1221		U	8.6		U	7.5		U	7.5
PCB-1232		U	8.6		U	7.5		U	7.5
PCB-1242		U	8.6		U	7.5		U	7.5
PCB-1248		U	8.6		U	7.5		U	7.5
PCB-1254		U	5.3		U	4.6		U	4.7
PCB-1260		U	5.3		U	4.6		U	4.7
PCB-1268									
Total PCBs	0.58	U			U			U	
<b>Metals (USEPA Method 6010B)</b>									
<b>Analyte</b>	<b>RBC (mg/kg)</b>								
Zinc	4739	NA			NA			NA	
<b>Dioxins/Furans (USEPA Method 8280A)</b>									
<b>Analyte</b>	<b>RBC (mg/kg)</b>	<b>(ng/g)</b>							
Dioxin TEQ	0.00051	0	TEQ		0	TEQ		0	TEQ

Results in ***bold italics*** denote detections.

RBC - Risk based concentration for Dead Creek

MDL - Method detection limit

NA - Not analyzed

Flags and Qualifiers

U - Analyte was not detected at or above the Method Detection Limit (MDL).

***U and B*** - Result is an estimated value below the Reporting Limit (RL),

but greater than or equal to the Method Detection Limit (MDL); The concentration is an approximate value.

***P*** - The lower of the two values is reported when the % difference between the results of two GC columns is greater than 40%.

N - Spiked Analyte recovery is outside stated control limits.

TEQ - Detection limits for total dioxin TEQ vary widely for each dioxin compound and are typically less than 0.5ng/g. The laboratory reported dioxin TEQ as 0 (zero) when dioxins were not detected.

Checked by: AMF

Reviewed by: MNH



**Creek Segment F Summary of Soil Confirmation Sample Results**  
 Sauget Area 1 Dead Creek Sediment Removal Action  
 Sauget, Illinois

043-9670

Sample ID		CSFT3-1	MDL	CSFT3-2	MDL	CSFT3-3	MDL	CSFT3-4	MDL	CSFT3-5	MDL	CSFT3-6	MDL
Date Sampled		1/26/2006		1/26/2006		1/26/2006		1/26/2006		1/26/2006		1/27/2006	
Sample Location Description		Segment F, ~T2+225		Segment F, ~T2+275		Segment F, ~T2+325		Segment F, ~T2+375		Segment F, T3+25		Segment F, ~T3+100	
<b>Metals (USEPA Method 7470A)</b>													
Analyte	RBC (mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.18	<b>0.023 J</b>	0.0013	<b>0.13</b>	0.0013	<b>0.058</b>	0.0013	<b>0.051</b>	0.0013	<b>0.11</b>	0.0013	<b>0.12</b>	0.0013
<b>Metals (USEPA Method 6010B)</b>													
Analyte	RBC (mg/kg)												
Zinc	4739	NA		NA		NA		NA		NA		NA	
<b>Dioxins/Furans (USEPA Method 8280A)</b>													
Analyte	RBC (mg/kg)												
Dioxin TEQ	0.00051	NA		NA		NA		NA		NA		NA	

Results in ***bold italics*** denote detections.

RBC - Risk based concentration for Dead Creek

MDL - Method detection limit

NA - Not analyzed; mercury was sampled on a 50-ft spacing.

Flags and Qualifiers

U - Analyte was not detected at or above the Method Detection Limit (MDL).

**U and B** - Result is an estimated value below the Reporting Limit (RL), but greater than or equal to the Method Detection Limit (MDL); The concentration is an approximate value.

N - Spiked Analyte recovery is outside stated control limits.

TEQ - Detection limits for total dioxin TEQ vary widely for each dioxin compound and are typically less than 0.5ng/g. The laboratory reported dioxin TEQ as 0 (zero) when dioxins were not detected.

Checked by: AMF

Reviewed by: MNH

**Creek Segment F Summary of Soil Confirmation Sample Results**  
 Sauget Area 1 Dead Creek Sediment Removal Action  
 Sauget, Illinois

043-9670

Sample ID		CSFT3-7	MDL	CSFT3-8	MDL	CSFT5-1	MDL	CSFT5-2	MDL	CSFT5-3	MDL	CSFT5-4	MDL
Date Sampled		1/27/2006		1/27/2006		2/3/2006		2/3/2006		2/3/2006		2/3/2006	
Sample Location Description		Segment F, ~T3+150		Segment F, ~T3+200		Segment F, ~T4+85		Segment F, ~T4+110		Segment F, ~T4+135		Segment F, ~T4+160	
<b>Metals (USEPA Method 7470A)</b>													
Analyte	RBC (mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.18	<b>0.063</b>	0.0013	<b>0.086</b>	0.0013	<b>0.036 J</b>	0.00668	NA		<b>0.050 J</b>	0.00668	NA	
<b>Metals (USEPA Method 6010B)</b>													
Analyte	RBC (mg/kg)												
Zinc	4739	NA		NA		NA		NA		NA		NA	
<b>Dioxins/Furans (USEPA Method 8280A)</b>													
Analyte	RBC (mg/kg)					(ng/g)		(ng/g)		(ng/g)		(ng/g)	
Dioxin TEQ	0.00051	NA		NA		0	TEQ	0	TEQ	0	TEQ	0	TEQ

Results in ***bold italics*** denote detections.

RBC - Risk based concentration for Dead Creek

MDL - Method detection limit

NA - Not analyzed; mercury was sampled on a 50-ft spacing.

Flags and Qualifiers

U - Analyte was not detected at or above the Method Detection Limit (MDL).

**U and B** - Result is an estimated value below the Reporting Limit (RL),  
 but greater than or equal to the Method Detection Limit (MDL); The  
 concentration is an approximate value.

N - Spiked Analyte recovery is outside stated control limits.

TEQ - Detection limits for total dioxin TEQ vary widely for each dioxin  
 compound and are typically less than 0.5ng/g. The laboratory reported  
 dioxin TEQ as 0 (zero) when dioxins were not detected.

Checked by: AMF

Reviewed by: MNH

**Creek Segment F Summary of Soil Confirmation Sample Results**  
 Sauget Area 1 Dead Creek Sediment Removal Action  
 Sauget, Illinois

043-9670

Sample ID		CSFT5-5	MDL	CSFT5-6	MDL	CSFT5-7	MDL	CSFT5-8	MDL	CSFT5-9	MDL	CSFT5-10	MDL
Date Sampled		2/3/2006		2/3/2006		2/3/2006		2/3/2006		2/3/2006		2/22/2006	
Sample Location Description		Segment F, ~T4+185		Segment F, ~T4+210		Segment F, ~T4+235		Segment F, ~T4+260		Segment F, ~T4+285		Segment F, ~T4+310	
<b>Metals (USEPA Method 7470A)</b>													
Analyte	RBC (mg/kg)		(mg/kg)				(mg/kg)				(mg/kg)		
Mercury	0.18	<b>0.043 J</b>	0.00668	NA		<b>0.059</b>	0.00668	NA		<b>0.16</b>	0.00668	NA	
<b>Metals (USEPA Method 6010B)</b>													
Analyte	RBC (mg/kg)												
Zinc	4739	NA		NA		NA		NA		NA		NA	
<b>Dioxins/Furans (USEPA Method 8280A)</b>													
Analyte	RBC (mg/kg)		(ng/g)		(ng/g)		(ng/g)		(ng/g)		(ng/g)		(ng/g)
Dioxin TEQ	0.00051	0	TEQ	0	TEQ	<b>0.0024</b>	TEQ	0	TEQ	<b>0.0064</b>	TEQ	<b>0.007</b>	TEQ

Results in ***bold italics*** denote detections.

RBC - Risk based concentration for Dead Creek

MDL - Method detection limit

NA - Not analyzed; mercury was sampled on a 50-ft spacing.

Flags and Qualifiers

U - Analyte was not detected at or above the Method Detection Limit (MDL).

**U and B** - Result is an estimated value below the Reporting Limit (RL), but greater than or equal to the Method Detection Limit (MDL); The concentration is an approximate value.

N - Spiked Analyte recovery is outside stated control limits.

TEQ - Detection limits for total dioxin TEQ vary widely for each dioxin compound and are typically less than 0.5ng/g. The laboratory reported dioxin TEQ as 0 (zero) when dioxins were not detected.

Checked by: AMF

Reviewed by: MNH

**Creek Segment F Summary of Soil Confirmation Sample Results**  
 Sauget Area 1 Dead Creek Sediment Removal Action  
 Sauget, Illinois

043-9670

Sample ID		CSFT5-11	MDL	CSFT5-12	MDL	CSFT5-13	MDL	CSFT5-14	MDL	CSFT5-15	MDL	CSFT5-16	MDL
Date Sampled		2/22/2006		2/22/2006		2/9/2006		2/9/2006		2/9/2006		2/9/2006	
Sample Location Description		Segment F, ~T4+335		Segment F, ~T5+00		Segment F, ~T5+25		Segment F, ~T5+50		Segment F, ~T5+75		Segment F, ~T5+100	
<b>Metals (USEPA Method 7470A)</b>													
Analyte	RBC (mg/kg)	(mg/kg)				(mg/kg)				(mg/kg)			
Mercury	0.18	<b>0.059</b>	0.00668	NA		<b>0.038</b>	0.00668	NA		<b>0.10</b>	0.00668	NA	
<b>Metals (USEPA Method 6010B)</b>													
Analyte	RBC (mg/kg)												
Zinc	4739	NA		NA		NA		NA		NA		NA	
<b>Dioxins/Furans (USEPA Method 8280A)</b>													
Analyte	RBC (mg/kg)	(ng/g)		(ng/g)		(ng/g)		(ng/g)		(ng/g)		(ng/g)	
Dioxin TEQ	0.00051	0	TEQ	0	TEQ	<b>0.0870</b>	TEQ	0	TEQ	0	TEQ	0	TEQ

Results in ***bold italics*** denote detections.

RBC - Risk based concentration for Dead Creek

MDL - Method detection limit

NA - Not analyzed; mercury was sampled on a 50-ft spacing.

Flags and Qualifiers

U - Analyte was not detected at or above the Method Detection Limit (MDL).

**U and B** - Result is an estimated value below the Reporting Limit (RL), but greater than or equal to the Method Detection Limit (MDL); The concentration is an approximate value.

N - Spiked Analyte recovery is outside stated control limits.

TEQ - Detection limits for total dioxin TEQ vary widely for each dioxin compound and are typically less than 0.5ng/g. The laboratory reported dioxin TEQ as 0 (zero) when dioxins were not detected.

Checked by: AMF

Reviewed by: MNH

**Creek Segment F Summary of Soil Confirmation Sample Results**  
 Sauget Area 1 Dead Creek Sediment Removal Action  
 Sauget, Illinois

043-9670

Sample ID		CSFT5-17	MDL	CSFT5-18	MDL	CSFT5-19	MDL	CSFT5-20	MDL	CSFT5-21	MDL	CSFT5-22	MDL
Date Sampled		2/9/2006		2/9/2006		2/9/2006		2/9/2006		2/9/2006		2/9/2006	
Sample Location Description		Segment F, ~T5+125		Segment F, ~T5+150		Segment F, ~T5+175		Segment F, ~T5+200		Segment F, ~T5+225		Segment F, ~T5+250	
<b>Metals (USEPA Method 7470A)</b>													
Analyte	RBC (mg/kg)	(mg/kg)				(mg/kg)				(mg/kg)			
Mercury	0.18	<b>0.024 J</b>	0.00668	NA		U	0.00668	NA		<b>0.025 J</b>	0.00668	NA	
<b>Metals (USEPA Method 6010B)</b>													
Analyte	RBC (mg/kg)												
Zinc	4739	NA		NA		NA		NA		NA		NA	
<b>Dioxins/Furans (USEPA Method 8280A)</b>													
Analyte	RBC (mg/kg)	(ng/g)		(ng/g)		(ng/g)		(ng/g)		(ng/g)		(ng/g)	
Dioxin TEQ	0.00051	0	TEQ	0	TEQ	0	TEQ	0	TEQ	0	TEQ	<b>0.3540</b>	TEQ

Results in ***bold italics*** denote detections.

RBC - Risk based concentration for Dead Creek

MDL - Method detection limit

NA - Not analyzed; mercury was sampled on a 50-ft spacing.

Flags and Qualifiers

U - Analyte was not detected at or above the Method Detection Limit (MDL).

**U and B** - Result is an estimated value below the Reporting Limit (RL), but greater than or equal to the Method Detection Limit (MDL); The concentration is an approximate value.

N - Spiked Analyte recovery is outside stated control limits.

TEQ - Detection limits for total dioxin TEQ vary widely for each dioxin compound and are typically less than 0.5ng/g. The laboratory reported dioxin TEQ as 0 (zero) when dioxins were not detected.

Checked by: AMF

Reviewed by: MNH

**Creek Segment F Summary of Soil Confirmation Sample Results**  
 Sauget Area 1 Dead Creek Sediment Removal Action  
 Sauget, Illinois

043-9670

Sample ID		CSFT5-23	MDL	CSFT5-24	MDL	CSFT5-STKPLE	MDL	CSFT9-1	MDL	CSFT9-2	MDL	CSFT9-3	MDL
Date Sampled		2/9/2006		2/9/2006		2/27/2006		2/6/2006		2/6/2006		2/6/2006	
Sample Location Description		Segment F, ~T5+275		Segment F, ~T5+300				Segment F, ~T8+250		Segment F, ~T8+300		Segment F, ~T8+350	
<b>Metals (USEPA Method 7470A)</b>													
Analyte	RBC (mg/kg)	(mg/kg)				(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.18	<b>0.061</b>	0.00668	U	0.00668	<b>0.055</b>	0.00668	U	0.00668	<b>0.065</b>	0.00668	<b>0.064</b>	0.00668
<b>Metals (USEPA Method 6010B)</b>													
Analyte	RBC (mg/kg)					(mg/kg)							
Zinc	4739	NA		NA		<b>1130 N</b>	0.2	NA		NA		NA	
<b>Dioxins/Furans (USEPA Method 8280A)</b>													
Analyte	RBC (mg/kg)	(ng/g)		(ng/g)		(ng/g)							
Dioxin TEQ	0.00051	<b>0.0020</b>	TEQ	<b>0.0083</b>	TEQ	<b>0.0017</b>	TEQ	NA		NA		NA	

Results in ***bold italics*** denote detections.

RBC - Risk based concentration for Dead Creek

MDL - Method detection limit

NA - Not analyzed; mercury was sampled on a 50-ft spacing.

Flags and Qualifiers

U - Analyte was not detected at or above the Method Detection Limit (MDL).

**U and B** - Result is an estimated value below the Reporting Limit (RL), but greater than or equal to the Method Detection Limit (MDL); The concentration is an approximate value.

N - Spiked Analyte recovery is outside stated control limits.

TEQ - Detection limits for total dioxin TEQ vary widely for each dioxin compound and are typically less than 0.5ng/g. The laboratory reported dioxin TEQ as 0 (zero) when dioxins were not detected.

Checked by: AMF

Reviewed by: MNH

**Creek Segment F Summary of Soil Confirmation Sample Results**  
 Sauget Area 1 Dead Creek Sediment Removal Action  
 Sauget, Illinois

043-9670

Sample ID		CSFT9-4	MDL	CSFT9-5	MDL	CSFT9-6	MDL	CSFT9-7	MDL	CSFT14-1	MDL	CSFT14-2	MDL
Date Sampled		2/6/2006		2/6/2006		2/6/2006		2/6/2006		2/13/2006		2/13/2006	
Sample Location Description		Segment F, ~T9+00		Segment F, ~T9+50		Segment F, ~T9+100		Segment F, ~T9+150		Segment F, ~T13+225		Segment F, ~T13+275	
<b>Metals (USEPA Method 7470A)</b>													
Analyte	RBC (mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.18	<b>0.12</b>	0.00668	<b>0.056</b>	0.00668	<b>0.017 J</b>	0.00668	U	0.00668	<b>0.040 J</b>	0.00668	<b>0.026 J</b>	0.00668
<b>Metals (USEPA Method 6010B)</b>													
Analyte	RBC (mg/kg)												
Zinc	4739	NA		NA		NA		NA		NA		NA	
<b>Dioxins/Furans (USEPA Method 8280A)</b>													
Analyte	RBC (mg/kg)												
Dioxin TEQ	0.00051	NA		NA		NA		NA		NA		NA	

Results in ***bold italics*** denote detections.

RBC - Risk based concentration for Dead Creek

MDL - Method detection limit

NA - Not analyzed; mercury was sampled on a 50-ft spacing.

Flags and Qualifiers

U - Analyte was not detected at or above the Method Detection Limit (MDL).

**U and B** - Result is an estimated value below the Reporting Limit (RL), but greater than or equal to the Method Detection Limit (MDL); The concentration is an approximate value.

N - Spiked Analyte recovery is outside stated control limits.

TEQ - Detection limits for total dioxin TEQ vary widely for each dioxin compound and are typically less than 0.5ng/g. The laboratory reported dioxin TEQ as 0 (zero) when dioxins were not detected.

Checked by: AMF

Reviewed by: MNH

**Creek Segment F Summary of Soil Confirmation Sample Results**  
 Sauget Area 1 Dead Creek Sediment Removal Action  
 Sauget, Illinois

043-9670

Sample ID		CSFT14-3	MDL	CSFT14-4	MDL	CSFT14-5	MDL	CSFT14-6	MDL	CSFT14-7	MDL	CSFT14-8	MDL
Date Sampled		2/13/2006		2/13/2006		2/16/2006		2/16/2006		2/16/2006		2/15/2006	
Sample Location Description		Segment F, ~T13+325		Segment F, ~T13+275		Segment F, ~T14+25		Segment F, ~T14+75		Segment F, ~T14+125		Segment F, ~T14+175	
<b>Metals (USEPA Method 7470A)</b>													
Analyte	RBC (mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.18	<i>0.010 J</i>	0.00668	<i>0.052 J</i>	0.00668	<i>0.041 J</i>	0.00668	<i>0.016 J</i>	0.00668	<i>0.013 J</i>	0.00668	<i>0.016 JN</i>	0.00668
<b>Metals (USEPA Method 6010B)</b>													
Analyte	RBC (mg/kg)												
Zinc	4739	NA		NA		NA		NA		NA		NA	
<b>Dioxins/Furans (USEPA Method 8280A)</b>													
Analyte	RBC (mg/kg)												
Dioxin TEQ	0.00051	NA		NA		NA		NA		NA		NA	

Results in ***bold italics*** denote detections.

RBC - Risk based concentration for Dead Creek

MDL - Method detection limit

NA - Not analyzed; mercury was sampled on a 50-ft spacing.

Flags and Qualifiers

U - Analyte was not detected at or above the Method Detection Limit (MDL).

**U and B** - Result is an estimated value below the Reporting Limit (RL),  
 but greater than or equal to the Method Detection Limit (MDL); The  
 concentration is an approximate value.

N - Spiked Analyte recovery is outside stated control limits.

TEQ - Detection limits for total dioxin TEQ vary widely for each dioxin  
 compound and are typically less than 0.5ng/g. The laboratory reported  
 dioxin TEQ as 0 (zero) when dioxins were not detected.

Checked by: AMF

Reviewed by: MNH



**Creek Segment F Summary of Beta-BHC Soil Sample Results**  
Sauget Area 1 Dead Creek Sediment Removal Action  
Sauget, Illinois

043-9670

Sample ID		CSFT3-101	MDL	CSFT3-102	MDL	CSFT3-103	MDL	CSFT3-104	MDL	CSFT3-105	MDL	CSFT3-106	MDL
Date Sampled		3/24/2006		3/24/2006		3/24/2006		3/24/2006		3/24/2006		3/24/2006	
Sample Location Description		Segment F, ~T2+225		Segment F, ~T2+250		Segment F, ~T2+275		Segment F, ~T2+300		Segment F, T2+325		Segment F, ~T2+350	
Organochlorine Pesticides (USEPA Method 8081A)													
Analyte		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Beta-BHC		U	0.00017	U	0.00026	U	0.00016	U	0.00016	U	0.00019	U	0.00017

Results in ***bold italics*** denote detections.

MDL - Method detection limit

Flags and Qualifiers

U - Analyte was not detected at or above the Method Detection Limit (MDL).

Checked by: AMF  
Reviewed by: MNH

**Creek Segment F Summary of Beta-BHC Soil Sample Results**  
Sauget Area 1 Dead Creek Sediment Removal Action  
Sauget, Illinois

043-9670

Sample ID		CSFT3-107	MDL	CSFT3-108	MDL	CSFT3-109	MDL	CSFT3-110	MDL	CSFT3-111	MDL	CSFT3-112	MDL
Date Sampled		3/24/2006		3/24/2006		3/24/2006		3/24/2006		3/24/2006		3/24/2006	
Sample Location Description		Segment F, ~T2+375		Segment F, ~T3+00		Segment F, T3+25		Segment F, T3+100		Segment F, ~T3+125		Segment F, T3+150	
Organochlorine Pesticides (USEPA Method 8081A)													
Analyte		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Beta-BHC		U	0.00017	U	0.00017	U	0.00016	U	0.00015	U	0.00016	U	0.00018

Results in ***bold italics*** denote detections.

MDL - Method detection limit

Flags and Qualifiers

U - Analyte was not detected at or above the Method Detection Limit (MDL).

Checked by: AMF  
Reviewed by: MNH

**Creek Segment F Summary of Beta-BHC Soil Sample Results**  
Sauget Area 1 Dead Creek Sediment Removal Action  
Sauget, Illinois

043-9670

Sample ID		CSFT3-113	MDL	CSFT3-114	MDL
Date Sampled		3/24/2006		3/24/2006	
Sample Location Description		Segment F, ~T3+175		Segment F, T3+200	
<b>Organochlorine Pesticides (USEPA Method 8081A)</b>					
<b>Analyte</b>		<b>(mg/kg)</b>		<b>(mg/kg)</b>	
Beta-BHC		U	0.00016	U	0.00015

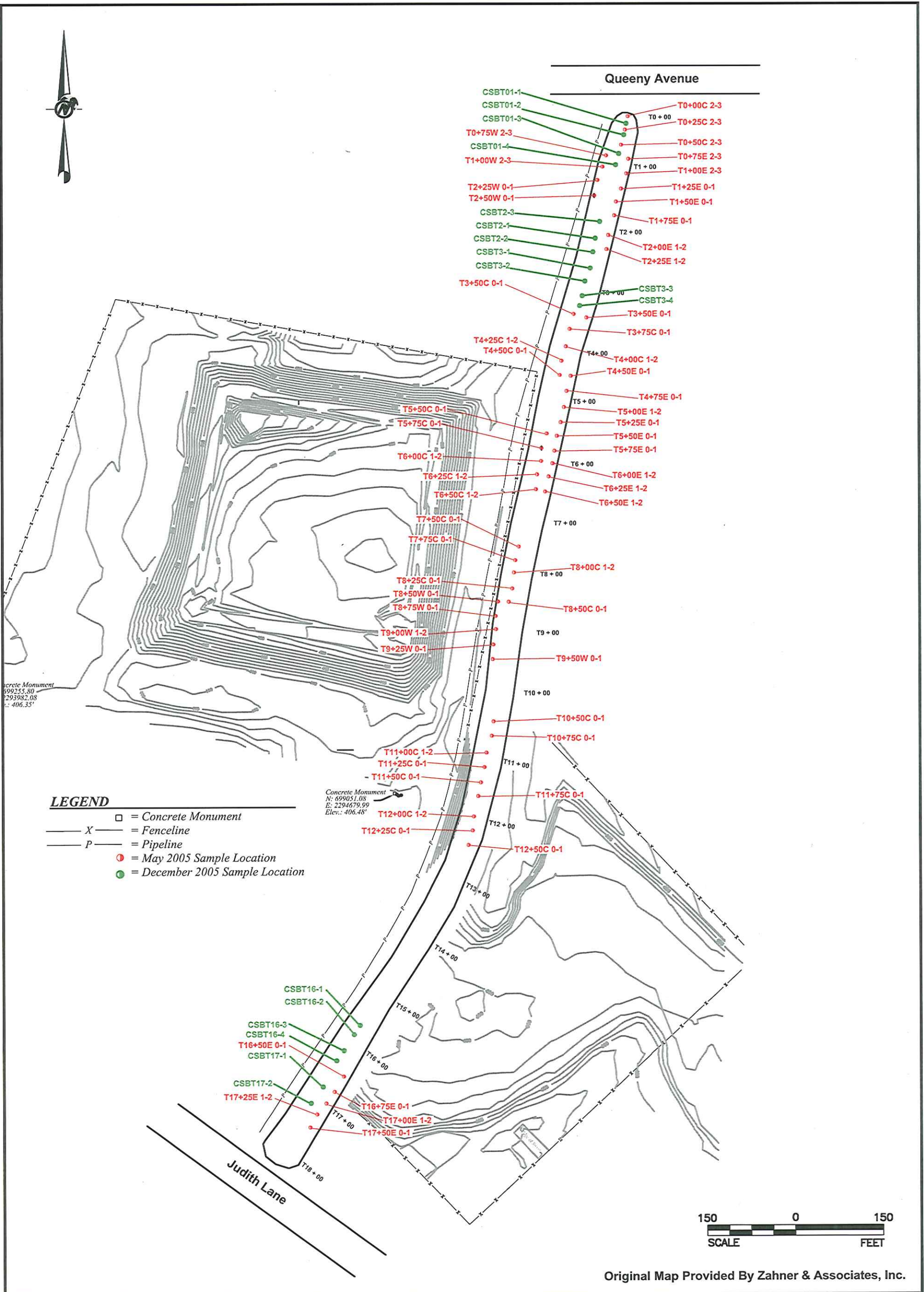
Results in ***bold italics*** denote detections.

MDL - Method detection limit

Flags and Qualifiers

U - Analyte was not detected at or above the Method Detection Limit (MDL).

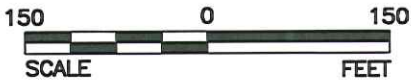
Checked by: AMF  
Reviewed by: MNH



**LEGEND**

- = Concrete Monument
- X = Fenceline
- P = Pipeline
- = May 2005 Sample Location
- = December 2005 Sample Location

Concrete Monument  
N: 699051.08  
E: 2294679.99  
Elev.: 406.48'



Original Map Provided By Zahner & Associates, Inc.

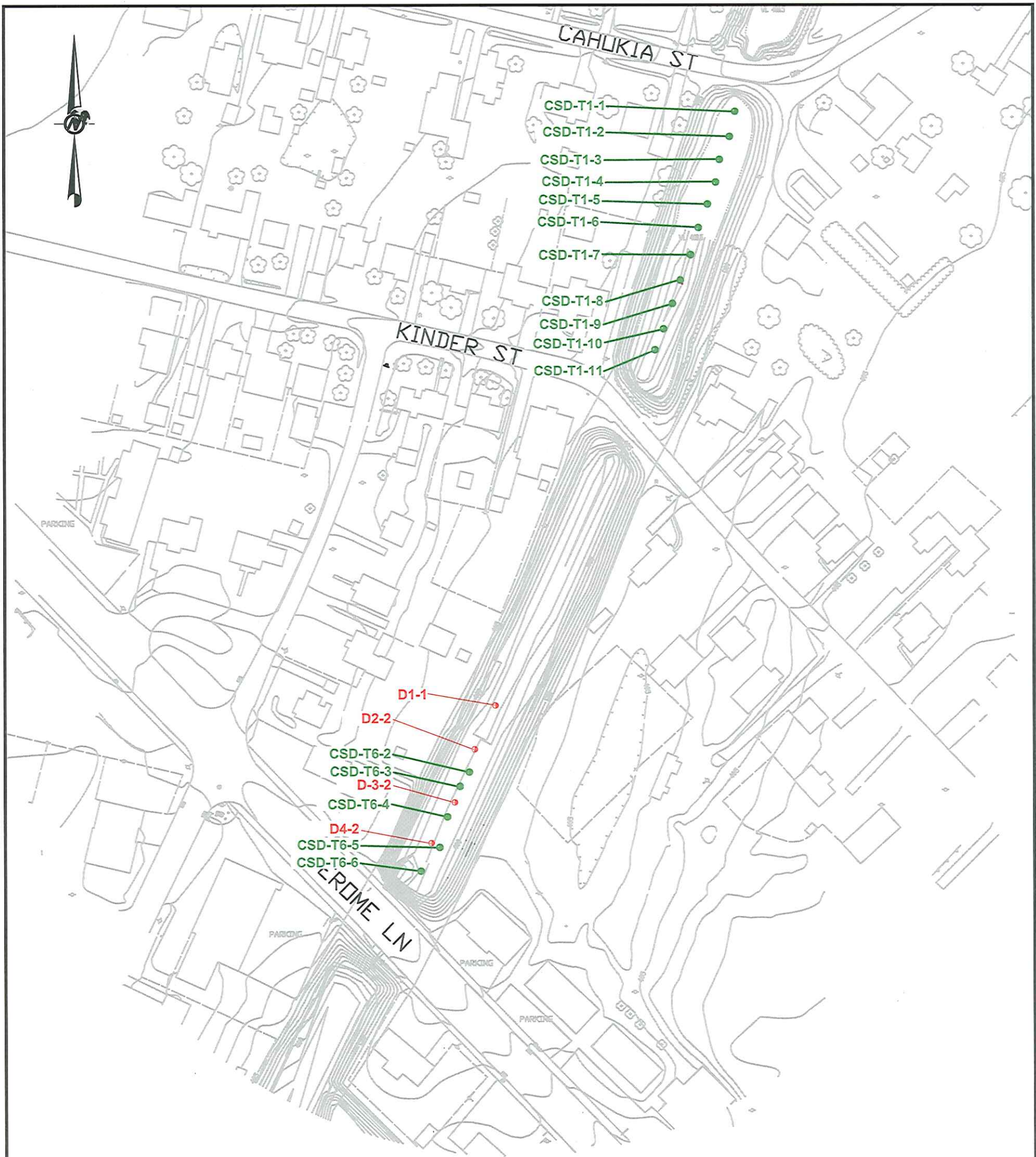
PROJECT No. 083-84127
FILE No. 08384127A220
REV. 1 SCALE AS SHOWN
DESIGN MNH 07/08/05
CADD AWG 12/29/08
CHECK JCW 01/05/09
REVIEW MNI 01/09/09
FIGURE 1

**CREEK SEGMENT B  
CONFIRMATION SOIL SAMPLING  
LOCATIONS**

PROJECT  
SOLUTIA INC  
DEAD CREEK  
Sauget, Illinois








**LEGEND**

- = 2004 Sampling Locations
- = 2006 Sampling Locations

100 0 100  
SCALE FEET

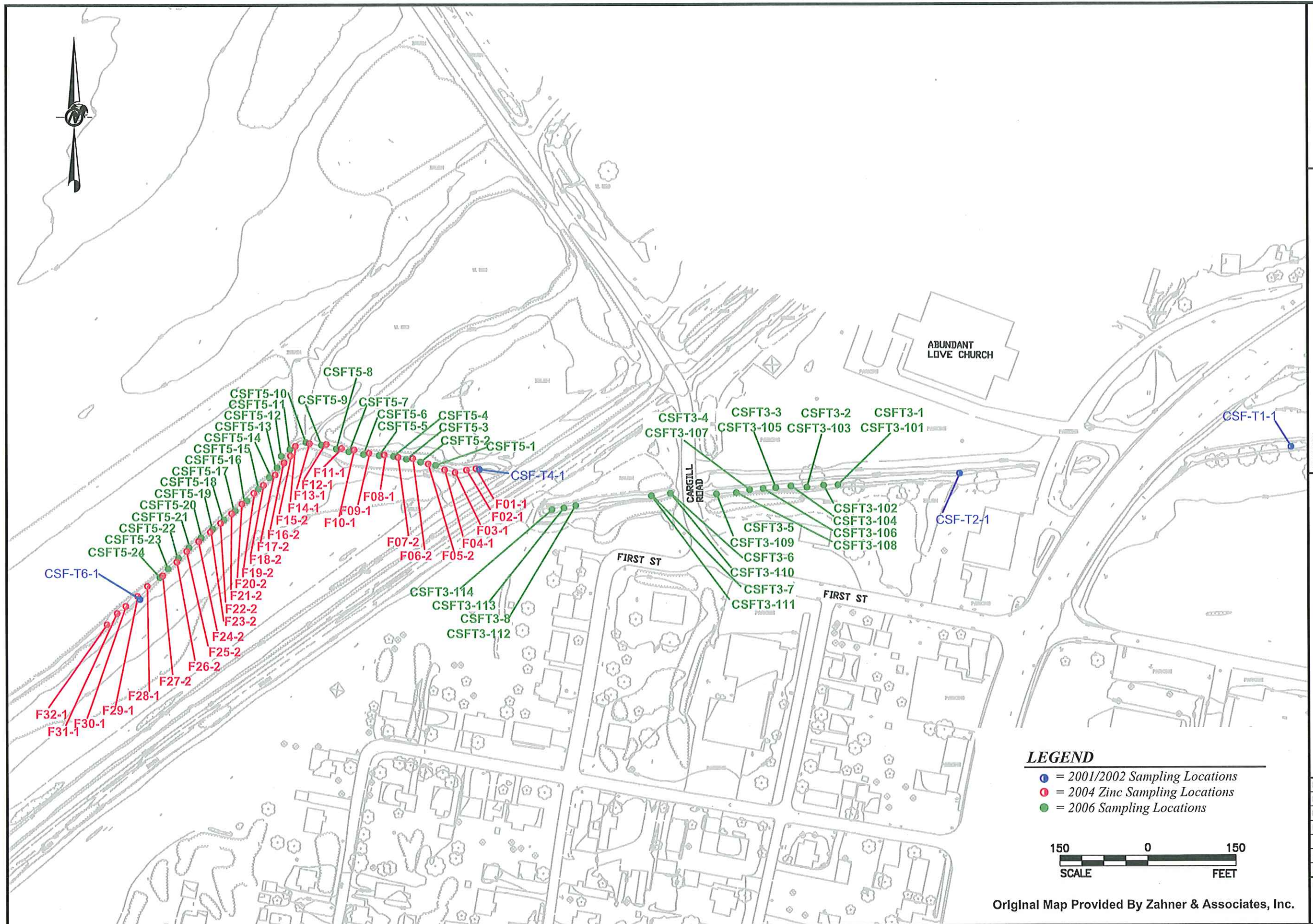
Original Map Provided By Zahner & Associates, Inc.

<table><tr><td>FIGURE</td><td>2</td></tr><tr><td>REVIEW</td><td>MNH/01/09/09</td></tr><tr><td>CHECK</td><td>JCW 01/05/09</td></tr><tr><td>CADD</td><td>AWG 12/29/08</td></tr><tr><td>DESIGN</td><td>AWG 12/29/08</td></tr><tr><td>REV. 0</td><td>SCALE AS SHOWN</td></tr><tr><td>FILE No.</td><td>08384127A222</td></tr><tr><td>PROJECT No.</td><td>083-84127</td></tr></table>		FIGURE	2	REVIEW	MNH/01/09/09	CHECK	JCW 01/05/09	CADD	AWG 12/29/08	DESIGN	AWG 12/29/08	REV. 0	SCALE AS SHOWN	FILE No.	08384127A222	PROJECT No.	083-84127	<p>TITLE</p> <p><b>CREEK SEGMENT D CONFIRMATION SOIL SAMPLING LOCATIONS</b></p>	<p>PROJECT</p> <p>SOLUTIA INC DEAD CREEK Sauget, Illinois</p>	 <p><b>Golder Associates</b> St. Louis, Missouri</p>
FIGURE	2																			
REVIEW	MNH/01/09/09																			
CHECK	JCW 01/05/09																			
CADD	AWG 12/29/08																			
DESIGN	AWG 12/29/08																			
REV. 0	SCALE AS SHOWN																			
FILE No.	08384127A222																			
PROJECT No.	083-84127																			

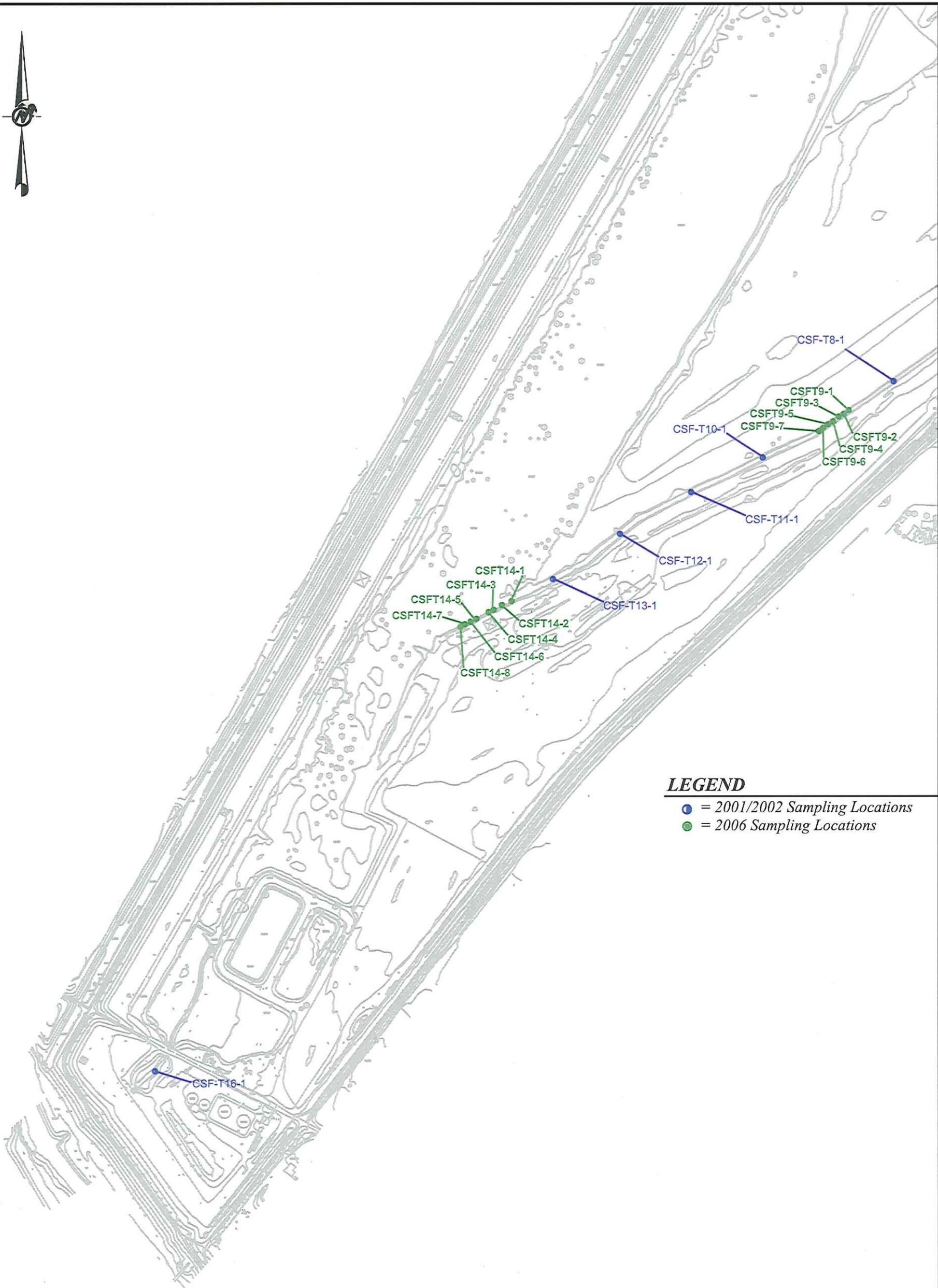


**CREEK SEGMENT F  
CONFIRMATION SOIL SAMPLING  
LOCATIONS  
(SHEET 1 OF 2)**

PROJECT No.	083-84127
FILE No.	08384127A224
REV. 0	SCALE AS SHOWN
DESIGN	AWG 12/29/08
CADD	AWG 12/31/08
CHECK	JCW 01/05/09
REVIEW	MNH 01/09/09
FIGURE	MNH

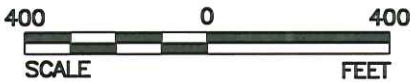







**LEGEND**

- = 2001/2002 Sampling Locations
- = 2006 Sampling Locations



Original Map Provided By Zahner & Associates, Inc.

<div>PROJECT No. 083-84127</div> <div>FILE No. 08384127A219</div> <div>REV. 0 SCALE AS SHOWN</div> <div>DESIGN AWG 12/29/08</div> <div>CADD AWG 12/31/08</div> <div>CHECK JCW 01/05/09</div> <div>REVIEW <i>MW</i> 8-14-09</div> <div>FIGURE 4</div>	<div>TITLE</div> <div>CREEK SEGMENT F CONFIRMATION SOIL SAMPLING LOCATIONS (SHEET 2 OF 2)</div>	<div>PROJECT</div> <div>SOLUTIA INC DEAD CREEK Sauget, Illinois</div>	<div> <b>Golder Associates</b> St. Louis, Missouri</div>
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